REC'D 0 4 SEP 2006

	PATENT COOPE	RATION IRE	71.1	ILOU .	
rom the NTERNATIONAL SEARCHING AUTH	ORITY	•		WIPO	PCT
To: STEVEN P. FALLON	O.C.T.		PCT	1	
GREER, BURNS & CRAIN, LTD. 300 S. WACKER DRIVE - SUITE 2500 CHICAGO, IL 60606		WR. INTERNATIO	TTEN OPINIO NAL SEARCH	N OF THE ING AUTHO	RITY
			(PCT Rule 43	ois.1)	
· · · · · · · · · · · · · · · · · · ·		Date of mailing (day/month/year)		AUG 200	16
Applicant's or agent's file reference		FOR FURTHER	ACTION See paragraph 2 bel	low	
0321.70116					
International application No.	International filing date	(day/month/year)	Priority date (day)	•	
PCT/US05/09701	23 March 2005 (23.03.2	2005)	23 March 2004 (2	3.03.2004)	
International Patent Classification (IPC	or both national classifica	ition and IPC		•	
IPC: H03M 13/03(2006.01) USPC: 714/786			` .		
Applicant			•		
THE REGENTS OF THE UNIVERSIT	Y OF CALIFORNIA				
1. This opinion contains indications r	elating to the following iter	ms:			
Box No. I Basis of t	he opinion				
. Box No. II Priority					ļ
	blishment of opinion with	regard to novelty, inve	ntive step and indu	strial applicability	/
1. L	mity of invention				
Box No. V Reasoned applicable	l statement under Rule 43b lity; citations and explanat	is.1(a)(i) with regard to ions supporting such s	o novelty, inventive tatement	step or industria	u.
	ocuments cited			•	
1	lefects in the international				
Box No. VIII Certain o	bservations on the internal	tional application			
2. FURTHER ACTION If a demand for international pre International Preliminary Exami Authority other than this one to that written opinions of this Intern	be the IPEA and the chose national Searching Authori	en IPEA has notified ty will not be so consi	the International Budered.	ireau under Rule	66.1 <i>bis(b</i>)
If this opinion is, as provided at IPEA a written reply together, w of Form PCT/ISA/220 or before	ove, considered to be a w here appropriate, with ame he expiration of 22 months	ritten opinion of the endments, before the e s from the priority date	expiration of 3 money, whichever expires	ths from the date; later.	of mailing

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US

Commissioner for Patents
P.O. Box 1450

Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Form PCT/ISA/237 (cover sheet) (April 2005)

09 July 2006 (09.07.2006)

Date of completion of this opinion

Anthorized officer

Local Sol

Telephone No. 5712723826

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US05/09701

Box No. I Basis of this opinion	_
1. With regard to the language, this opinion has been established on the basis of: the international application in the language in which it was filed a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).	
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:	
a. type of material a sequence listing table(s) related to the sequence listing	
b. format of material on paper in electronic form	
c. time of filing/furnishing contained in the international application as filed. filed together with the international application in electronic form. furnished subsequently to this Authority for the purposes of search.	
In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	
4. Additional comments:	

Form PCT/ISA/237(Box No. I) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Form PCT/ISA/237 (Box No. V) (April 2005)

International application No. PCT/US05/09701

Box No.	V Reasone applicab	ed statemo oility; cita	ent under Ru tions and ex	ule 43 <i>bis</i> .1(a)(i) planations supp	with rega	rd to n	ovelty, in ment	ventiv	e step or i	ıdustriai	
. Statem	ent										
	Novelty (1	<i>4</i>)	•	Claims	1-25					Y	ES
		• •			NONE					N	Ю
	Inventive	sten (15)		Claims	1-25					Y	ΈS
	mvemive	310p (10)		•	NONE	-					10
	Industrial	applicabil	ity (TA)	Claims	1-25		•			Y	ΈS
	industriai	аррисаон	illy (IA)		NONE						Ю
. Citatio	ns and expl	anations:								:	-
Claims 1-	25 meet the	criteria set	out in PCT A	rticle 33(2)-(4), be	cause the p	rior art,	as exemp	lified by	Carotti et	al. (US Paten	it d
				ictive step as claim							
Carotti et	ul. discloses	a compens	ating interface	operating with arl	oitrary data sional deriv	wherein ed from	a digital d	ata com	munication :	system compri	ise 1g
equence	used to form	a referenœ	bitstream, to p	oredict that bitstrea	m which ne	xt correl	ates best v	vith said	reference b	itstream.	0
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PATENT COOPERATION TREATY

REC'D 0 4 SEP 2006 PCT WIPO

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To: STEVEN P. FALLON GREER, BURNS & CRAIN, LTD.

From the INTERNATIONAL SEARCHING AUTHORITY

300 S. WACKER DRIVE - SUITE 2500 CHICAGO, IL 60606		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHOR ITY				
	-	(PCT Rule 43 <i>bis</i> .1)				
· · · ·			2 4 - 1 - 2 2 2 2			
		Date of mailing (day/month/year)	31 AUG 2006			
Applicant's or agent's file reference		FOR FURTHER	ACTION See paragraph 2 below			
0321.70116		·				
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)			
PCT/US05/09701	23 March 2005 (23.03.2	2005)	23 March 2004 (23.03.2004)			
International Patent Classification (IPC)	r both national classifica	tion and IPC				
IPC: H03M 13/03(2006.01) USPC: 714/786						
Applicant						
THE REGENTS OF THE UNIVERSITY	OF CALIFORNIA					
1. This opinion contains indications rela	ating to the following iter	ms:				
Box No. I Basis of the	opinion					
Box No. II Priority		1	ntive stap and industrial applicability			
Box No. III Non-establi	shment of opinion with r	egard to novelty, inves	ntive step and industrial applicability			
	ty of invention					
Box No. V Reasoned s applicabilit	tatement under Rule 43b y; citations and explanat	is.1(a)(i) with regard to ions supporting such s	o novelty, inventive step or industrial latement			
	cuments cited					
1	ects in the international a		,			
Box No. VIII Certain obs	servations on the internat	ional application				
International Preliminary Examinate Authority other than this one to be that written opinions of this Internat	the IPEA and the chose ional Searching Authorit	in IPEA has notified to				
If this opinion is, as provided above 1PEA a written reply together, whe of Form PCT/ISA/220 or before the For further options, see Form PCT/I	expiration of 22 months	ritten opinion of the I ndments, before the e from the priority date	PEA, the applicant is invited to submit to the xpiration of 3 months from the date of mailing , whichever expires later.			
3. For further details, see notes to Fon	n PCT/ISA/220.		· ·			
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450	09 July 2000	pletion of this opinion 5 (09.07.2006)	Authorized officer Local Color Guy J. Lamarte, P.E Telephone No. 5712723826			

Facsimile No. (571) 273-3201
Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US05/09701

Box No.	I Basis of this opinion
	gard to the language, this opinion has been established on the basis of:
	he international application in the language in which it was filed
i	translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With re invention	gard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed on, this opinion has been established on the basis of:
a. 1	type of material
l	a sequence listing
ļ	table(s) related to the sequence listing
b.	format of material
l	on paper
	in electronic form
c.	time of filing/furnishing
J.	contained in the international application as filed.
[filed together with the international application in electronic form.
1	
	furnished subsequently to this Authority for the purposes of search.
	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additio	onal comments:
	·
	:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/09701

Box No. V Reasoned statement under Ru applicability; citations and ex	ıle 43 <i>bis</i> .1(a)(i) planations supp	with regard to orting such state	novelty, inven teme <mark>nt</mark>	itive step or	industrial
1. Statement					
Novelty (N)	Claims	1-25			YI
	Claims	NONE			N
Inventive step (IS)	Claims	1-25			YI
		11017			N
Industrial applicability (IA)	Claims	. 1.75	•		YI
Industrial applicability (IA)		NONE			N
					·
2. Citations and explanations:					
Claims 1-25 meet the criteria set out in PCT Ar 6,704,890), does not teach or fairly suggest prediction.	ticle 33(2)-(4), be ctive step as claim	cause the prior art	i, as exemplified	l by Carotti e	t al. (US Patent
Carotti et ul. discloses a compensating interface	operating with arb	itrary data wherei	n a digital data c	communication	system compris
predictor connected to a comparator and arranged sequence used to form a reference bitstream, to pr	i. in response to a s	signal derived from	n said comparate	or, correspond:	ing to a sampling
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Form PCT/ISA/237 (Box No. V) (April 2005)